

Center for Scientific Computing & Imaging

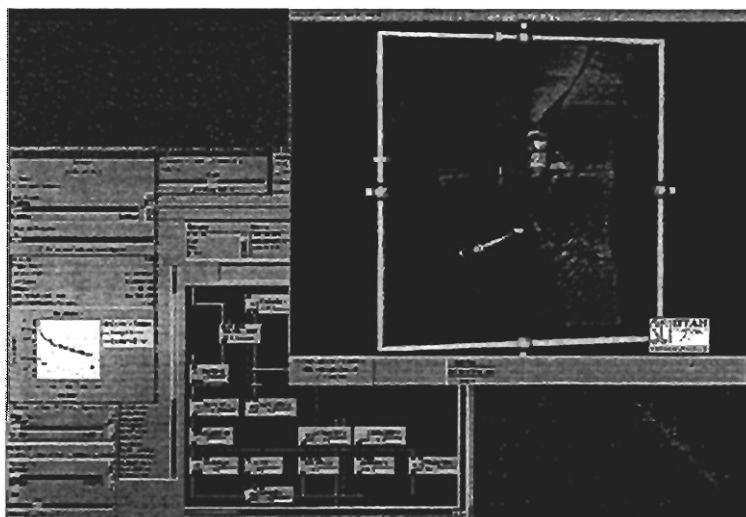
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The center develops sophisticated software that allows the visualization of complex engineering and scientific simulations.

Background

Established in 1996, the center was created to commercialize a leading edge software system (SCIRun technology), an interactive, visually based, scientific and engineering programming environment that allows the interactive construction, manipulation, and visualization of scientific and engineering simulation.



Graphic shows an example SCIRun network, showing the dataflow programming interface, user interfaces for controlling simulation parameters, and results from a computer simulation of internal cardiac defibrillation.

Technology Development Progress

The SCIRun technology provides scientists and engineers with a new model for scientific computing. The model relies on state of the art computing technologies including graphical user interfaces and 3D graphics to provide a visual programming and problem solving environment to investigate complex scientific and engineering problems. The program is currently being re-written for commercial use and to improve its robustness.

Highlights and Accomplishments

The center research group has been successful in leveraging the Centers of Excellence Program investment and recognition to attract two large research grants and a research grant from ASCI to research heat-based flow simulations. The center has been selected as the first Silicon Graphics Inc. Center for Visual Supercomputing.

Dr. Christopher Johnson was the recipient of the prestigious U.S. Presidential Faculty Fellow award.

Summary Data:

Current

1996-97 Award	\$135,000
Matching Funds	\$325,814
Patents Pending	0
Patents Issued	0
License Agreements	0
Spin-off Companies	0
Companies Assisted	3
Industry Jobs	0
Center Jobs	4

Cumulative

Awards	\$135,000
Matching Funds	\$325,814
Patents Issued	0
License Agreements	0
Spin-off Companies	0